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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-05-09** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Note:
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Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig Date

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-05-09** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-05-09** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-02-05-09

Date: 06-09-18

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-23/W.O/000018/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	155	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	163	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	224	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	272	826	82.6	17.4	5-20	8-30	12-40	15-50
7	150 micron	144	970	97.0	3.0	0-10	0-10	0-10	0-15
8	Pan	30	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/09/2018

Lab ID	:	**CP-2019-02-05-09**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	150.98 X 150.88 X 149.60	22781	8.245	430.5	18.9	18.4
2	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	151.81 X 149.91 X 149.63	22758	8.890	411.0	18.1	
3	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	151.56 X 150.04 X 150.63	22741	8.834	417.4	18.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2019-02-05-09**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 26/09/2018

Date of test : 26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	150.41 X 151.50 X 151.03	22787	8.252	423.6	18.6	18.3
2	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	151.30 X 150.30 X 149.38	22740	8.026	410.4	18.0	
3	Drain Bottom Slab Concrete	M20	19/09/2018	26/09/2018	150.71 X 149.78 X 150.46	22574	8.465	412.4	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-05-09 **Date: 03/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-23/W.O/000018/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	151.71 X 150.99 X 150.34	22907	8.252	432.1	18.9	18.7
2	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	149.35 X 149.52 X 149.66	22332	8.156	409.7	18.3	
3	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	151.75 X 149.09 X 149.52	22625	8.465	424.6	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-05-09 **Date: 03/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-23/W.O/000018/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	151.81 X 151.70 X 149.94	23030	8.252	435.9	18.9	18.8
2	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	150.84 X 151.32 X 150.36	22824	8.156	423.5	18.6	
3	Drain Side Wall Concrete	M20	26/09/2018	03/10/2018	151.75 X 149.71 X 149.46	22718	8.465	430.2	18.9	

Note:

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-02-05-09** **Date: 11-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	10-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	548	652	22.5%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	569	675	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	572	691	21.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 17-09-18

Lab ID	:	**CP-2019-02-05-09**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Janatha Colony in Ward No:2 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987,O.M.S.Road,Yelahanka,Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-23/W.O/000018/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-18
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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